NIDDK Intramural Researcher Biosketch

Name: Gertraud Robinson
Position Title: Ph.D.
Lab/Branch: Laboratory of Genetics and Physiology
Intramural Professional Designation: Staff Scientist

A. Education/Training

INSTITUTION AND LOCATION	DEGREE *(if applicable)*	YEAR(s)	FIELD OF STUDY
Agricultural University Vienna, Austria	Diploma	1973	Microbiology
University of Salzburg, Austria	Doctorate	1981	Genetics
NIH/NCI and NIDDK	Postdoctorate	1983-1986	Genetics

B. Positions and Honors

Institute of Molecular Biology, Austrian Academy of Sciences, Salzburg 1986 – 1989
Group Leader

National Institute of Child Health and Human Development 1990 - 1993
Senior Research Fellow, National Research Council

National Institute of Diabetes and Digestive and Kidney Diseases 1993 - 1997
Senior Staff Fellow, Developmental Biology Section

National Institute of Diabetes and Digestive and Kidney Diseases 1997 - present
Staff Scientist, Laboratory of Genetics and Physiology

- International Fogarty Fellowship (1983 - 1984)
- National Research Council Senior Fellowship (1990 - 1993)

- Study Section, Department of Defense Breast Cancer Program (1999, 2000)
- Editorial Board, Breast Cancer Research (1999-present)
- Review papers for Genes and Development, Development, Endocrinology, Molecular Endocrinology, Molecular and Cellular Biology, Cancer Research

C. Annual Report Titles.

Genetic approaches to understanding organ development

D. Selected peer-reviewed publications or manuscripts in press (out of 50 total)

- Evans, J., Rasweiler, J.J. IV, Behringer, R.R., Hennighausen, L., **Robinson,** G.W. (2004) A morphological and immunohistochemical comparison of mammary tissues from the short-tailed bat (*Carollia perspicillata*) and the mouse. Biol Reprod 70, 1573-1579.
- **Robinson**, G.W. (2004) Identification of signaling pathways in early mammary gland development by mouse genetics. Breast Cancer Res 6, 105-108.

- Shillingford, J.M., Miyoshi, K., **Robinson,** G.W., Bierie, B., Cao, Y., Karin, M., Hennighausen, L. (2003) Proteotyping of mammary tissue from transgenic and gene knockout mice with immunohistochemical markers: a tool to define developmental lesions. J Histochem Cytochem 51, 555-565.
- Gallego, M.I., Beachy, P.A., Hennighausen, L., **Robinson,** G.W. (2002) Differential requirements for Shh in mammary tissue and hair follicle morphogenesis. Dev Biol 249, 131-139.
- Miyoshi, K., Meyer, B., Gruss, P., Cui, K., Renou, J.-P., Morgan, F., Smith, G.H., Shani, M., Hennighausen, L., **Robinson**, G.W. (2002) Mammary epithelial cells are not able to undergo pregnancy dependent differentiation in the absence of the helix-loop-helix inhibitor Id2. Mol Endo 16, 2892-2901.
- Hennighausen, L. and **Robinson**, G.W. (2001) Signaling pathways in the mammary gland. Develop Cell 1, 467-475.
- **Robinson**, G.W., Wagner, K.-U., Hennighausen, L. (2001) Functional mammary gland development and oncogene-induced tumor formation are not affected by the absence of the retinoblastoma gene. Oncogene 20, 7115-7119.
- **Robinson**, G.W., Hennighausen, L., Johnson, P.F. (2000) Side-branching in the mammary gland: the progesterone-Wnt connection. Genes & Dev 14, 889-894.
- **Robinson**, G.W., Karpf, A.B.C., Kratochwil, K. (1999) Regulation of mammary gland development by tissue interaction. J Mam Gland Biol Neopl 4, 9-19.
- Dunbar, M.E., Dann, P.R., **Robinson**, G.W., Hennighausen, L., Zhang, J.-P., Wysolmerski, J.J. (1999) Parathyroid hormone-related protein signaling is necessary for sexual dimorphism during embryonic mammary development. Development 126, 3485-3493.
- Hennighausen, L. and **Robinson**, G.W. (1998) Think globally, act locally: the making of a mouse mammary gland. Genes & Dev 12, 449-455.
- **Robinson**, G.W., Johnson, P.F., Hennighausen, L. and Sterneck, E. (1998) The C/EBPβ transcription factor regulates epithelial cell proliferation and differentiation in the mammary gland. Genes & Dev 12, 1907-1916.
- **Robinson**, G.W. and Hennighausen, L. (1997) Inhibins and activins regulate mammary epithelial cell differentiation through mesenchymal-epithelial interactions. Development 124, 2701-2708.
- Hennighausen, L., **Robinson**, G.W., Wagner, K.-U., Liu, X. (1997) Prolactin signaling in mammary gland development. J Biol Chem 272, 7567-7569.
- **Robinson**, G.W., Smith, G.H., Gallahan, D., Zimmer, A., Furth, P., Hennighausen, L. (1996) Understanding mammary gland development through the imbalanced expression of growth regulators. Dev Dyn 206, 159-168.
- **Robinson**, G.W., McKnight, R.A., Smith, G.H. and Hennighausen, L. (1995) Mammary epithelial cells undergo differentiation in cycling virgins but require pregnancy for the establishment of terminal differentiation. Development 121, 2079-2090.
- **Robinson**, G.W., Mahon, K.A. (1994) Differential and overlapping expression domains of Dlx-2 and Dlx-3 suggest distinct roles for Distal-less homeobox genes in craniofacial development. Mech Dev 48, 199-215.
- **Robinson**, G.W., Wray, S., Mahon, K.A. (1991) Spatially restricted expression of a member of a new family of murine Distal-less homeobox genes in the developing forebrain. The New Biologist 3, 1183-1194.
- **Wasner**, G., Simons, S.S.,Jr. (1987) Differential sensitivity of HTC and FU5-5 cells for induction of tyrosine aminotransferase. Mol Endo 1, 109-120.

- **Wasner**, G., Hennermann, I., Kratochwil, K. (1983) Ontogeny of mesenchymal androgen receptors in the embryonic mammary gland. Endocrinology 113, 1771-1780.